DXCC WAZ

SO. CALIF DX CLUB

Bulletin

OCTOBER 1984

President: Joe Locascio, K5KT * Vice President: Marty Woll, N6VI *
Treasurer: Esther Wolf, KB6HW * Secretary: Dan Davitt, N6CGB *
Directors: Don Bostrom, N6IC; Jim Rafferty, N6RJ; Chris Williams, KG6AR *
Membership: Len Gerardi, NC6H * Bulletin Editor: George Morris, W6ABW *

Next meeting: THURSDAY OCTOBER 11 AT 7:30 PM IN THE DWP CAFETERIA

OCTOBER MEETING

Have you ever put up a new antenna only to find it needs to come down again for adjustment? Have you ever been disappointed by the failure of a commercial antenna, carefully set to factory-recommended lengths, to perform as advertised? Are you wondering if it's worth it to add that extra element?

There is a way to try it before you buy (or build) it...a new microcomputer-based tool called MININEC. You may have heard Hy-Gain's Roger Cox mention it at last April's Visalia convention. At our October meeting we will get a working introduction to MININEC from Jim Forgione WB6FZC. A member of the San Diego DX Club, Jim is a senior electronics specialist with General Dynamics. He will share with us his experience designing antennas by computer and evaluating several commercial designs. Be prepared for some surprises!

In addition to this fine presentation we will have a screening of the film "To Win the World", the story of the efforts of the operators at the K2GL multi-million dollar multi-operator station to retain their championship in a recent DX contest. Among other impressive sights you will see the raising of a four-element 80 meter yagi onto a 200-foot tower!

Don't miss this entertaining, informative evening. Of course, an array of raffle prizes will be waiting for you, too.

THANKS TO N6AHU AND N6NB

Our sincere thanks to Joe Merdler, N6AHU, and Wayne Overbeck, N6NB, for their excellent presentations provided on such short notice when our scheduled September speaker Jon Gallo, KB6WT, was forced to cancel due to illness.

REPEATER DX ROUNDTABLE

Remember the weekly DX Roundtable on Thursday evenings at 7:30 pm on the SCDXC repeater, 145.48 MHz. The Mt. Lukens repeater is back on the air.

DX CONTEST SURVEY FORM by K6SVL, Contest Committee Chairman

Following up on the concept presented at our last club meeting, you will find a DX Contest Survey Form enclosed with this Bulletin. Our objective is to promote wider participation and we need to learn what may be needed to "turn you on" and to solicit your assistance. Several members have already volunteered, but we need many more to provide the services that may be needed.

As in the recent Olympics, our success will depend on the efforts of many volunteers.

We may not be able to accomplish everything desired in time for the CQWW Phone Contest since there is not much time left. But, do get on - even for an hour on your favorite bands and submit your score for the Club.

FCC PREEMPTION REQUESTED BY ARRL from The ARRL Letter, Sep. 13, 1984

ARRL has requested that the FCC issue a Declaratory Ruling of Limited Federal Preemption of State and Local Regulation of Amateur Radio Station Installation and Operation. Such a ruling would delineate the limitations of local zoning and other local and state regulatory authority over Federally-licensed Amateur Radio facilities.

In documenting the need for such a ruling, ARRL cited a number of cases where local authorities have attempted to use zoning regulations to prohibit effective Amateur Radio operations. Although the local officials tend to couch their actions and decisions in terms of the protection of health and safety, there is little basis in the safety or health concerns.

ARRL goes on to point out that the Commission did issue a Public Notice in 1977 discussing the FCC's jurisdiction and preemptive authority over local regulation of radio with respect to interference problems. This notice did not, however, provide a "means by which a municipality might judge whether or not a particular ordinance is, facially or as applied, unduly restrictive or should be preempted." ARRL says that its request is straight forward and need not require FCC participation or intervention in local disputes or litigation. But without such a declaratory ruling, the present trend toward municipal and judicial intervention will continue. This will have a detrimental impact on the future of the Amateur Radio Service.

The League's petition is similar to one filed by United States Communications, Inc. (USCI) seeking a declaratory ruling with respect to TVRO (television receive-only) earth stations installed in residential areas.

The FCC seeks comments on the League's filing. An original and four copies of your comments must be received by the Secretary, Federal Communications Commission, 1919 M Street, NW, Washington, D.C. 20554 on or before November 9. As a courtesy, but not a requirement, please send a copy of your comments to ARRL Hq. Reply comments are due on or before December 14. Comments should refer to document number PRB-1. A copy of the League's request is available from ARRL Hq. for a 9 X 12 inch s.a.s.e. with 88 cents postage.

Please think carefully about the kinds of comments that will have a positive impact on this proceeding. You should construct non-emotional, factual accounts of any difficulty you have had in obtaining permission to erect an effective antenna. Of particular importance will be such things as legal and professional expenses incurred, as well as incidental expenses such as time lost from work. Venom will not improve our chances of obtaining this ruling.

According to ARRL Counsel Christopher D. Imlay, N3AKD, several powerful organizations, e.g. the American Planning Association, The National League of Cities, the City of New York, and the National Association of Counties, have filed comments opposing USCI's request. Most criticize the USCI request by stating that there is no factually demonstrated problem with local government regulation. Some of these groups may file similar comments with regard to the League's petition. The battle is far from won, and the stakes are very high.

MINUTES OF THE SEP. 13, 1984 MEETING

By Dan Daviff, N6CGB, Secretary, SCDXC

The meeting was called to order at 7:56 PM by Joe Lacascio, K5KT, SCDXC President. The evening began with the self-introduction of members and guests. There were 90 persons in attendance.

Cleyon, AD6P, gave us a good-news repeater report. The Motorola Micor is now up and running, even if only into a dummy load. As soon as Abel, N6ENL, has the time, he will take the equipment (including the controller) back up to Mt. Lukens. In the mean time, a substitute machine has been installed in Westchester at the home of Dick, W6ET.

Fried, WA6WZO, gave a report on FCC plans, including the expansion of the OO (Official Observer) Program. Fried recommended reading the August issue of QST for details. Also, the FCC is now out of the business of giving Amateur Radio Exams. The exams are now being given by VECs and VEs (Volunteer Examiners and Coordinators). Anyone interested in joining the VE program should write ARRL for an application. Starting in November, the Lockheed ARC in Burbank and the Downey ARC will be giving the exams. Exams will be given at the ARRL Convention in Santa Maria, CA on October 12-14. If you intend to take an exam, mail a completed FCC Form 610 in advance to: HAMCON, Box 2457, Santa Maria, CA 93455. Dave Bell, W6AQ, will be the dinner speaker. Larry Price, W4RA, ARRL President, will be at the Convention.

Tex, N6AHV, gave his well received weekly "Rumors Around the Bands" with the hot topic being the CEOAA operation. Listen to the SCDXC Repeater for almost daily updates on operating methods, times, modes and bands.

Roger, W6RW, came to the podium to call to the attention of the members present, ARTICLE V of the CONSTITUTION OF THE SOUTHERN CALIFORNIA DX CLUB headed "AMENDING THE CONSTITUTION". The amendment that Roger will propose (formally and at a later date), pertains to the offices of President and Vice-President. The substance of the proposal will deal with the automatic progression of the Vice-President to President. The proposed amendment will probably be presented at the October meeting and will have to conform to Section 1 of ARTICLE V. Comments from the floor were invited and accepted. Roger, W6RW, has been invited to the next board meeting.

Chris, K6GAR, has been appointed to check the cards for any and all Awards given by CQ Magazine. Anyone working towards an Award given by CQ Magazine, see Chris Williams, K6GAR.

John, K6SVL, has accepted the appointed as Chairman of the SCDXC Contest Committee. John is encouraging the members of the club to try and get on the air for at least an hour or two during a contest. Every little bit of effort helps and perhaps the Board will consider a small trophy or award for intra-club competition and achievement. Some services that the club could provide would be duping, scoring and even mailing the logs. Contact John Alexander, K6SVL, to volunteer your services and/or facilities to enable the club to score higher in the big contests, especially the ARRL and the CQ World-Wide.

Joe, K5KT, was pleased to recognize the fact that several of the SCDXC members had participated in various Olympic activities and had received awards and commendations for their efforts. Among those present receiving certificates were: Chris, NX6U; John, K6SVL; Len, NC6H and Joe, K5KT.

Our featured speaker, Joe Merdler, N6AHU, presented the issues relating to antenna ordinances facing many cities around the county and country. Arcadia, for example, is facing a hearing on free-standing structures that would be limited to 16 feet in height and 16 feet across! Joe feels that if we, the amateur fraternity, could support a movement to get the Federal Government to declare that the Federal Communications Act pre-empts local jurisdictions from regulating the height or anything about antennas except things relating to safety then we might be able to minimize or even eliminate these threats that are upon many of us in regards to antenna size and height. Joe suggested that we send an original along with 4 copies of our comments to the FCC and then a copy to the ARRL along with a statement of our action in that matter. Fried has a sample letter to be used as a GUIDE ONLY. Contact Joe, N6AHU, and Fried, WA6WZO, for further help in your letter writing campaign. November 9 is the deadline.

Wayne Overbeck, N6NB, advised that there is an upcoming meeting of the Arcadia City Council and on the agenda will be a proposed new antenna ordinance. The Arcadia amateurs would like very much to fill the council chambers with other hams that would lend support, even if in numbers only. Wayne also brought up another point in regards to any letters that may be written. The point is that we are a part of a Nationally Authorized Communications System licensed by the Federal Communications Commission and any restrictions placed upon our equipment would reduce (or eliminate) our effectiveness in that System. The FCC is not regulating safety and asthetics.

The raffle tickets were drawn at the close of the meeting and the winners of the prizes were as follows: K6GIP, an A.C. outlet strip; K6HMA, a 3 1/2 digit digital multimeter; ND6G, Coax Seal; ND6G, Hi-Pass Filter; WB6K, the ARRL Repeater Directory; NX6U, the ARRL Repeater Directory.

The meeting was adjourned at 10:12 PM.

ANTENNA AVAILABLE FREE: 60 foot crank up tower and TA6DXX tri-bander. Take them down and they're yours. Gene Dvorak, W6TZD, 5517 S. Mesagrove Ave. Whittier, CA 90601 213-695-9009.

OCTOBER PROPAGATION PREDICTIONS

The October propagation forecast and the October 15 to December 15 propagation predictions given on page 3 are courtesy of CQ magazine. Openings on 160 meters are likely to occur during those times when 80 meter openings are shown with a propagation index of (2) or higher.

LAST MINUTE FORECAST

Day-to-day Condx Expected for 10/84

	Expctd Signal Qlty			
Progagation Index	(4)	(3)	(2)	(1)
Above Normal:11,15,24	A	A	B	C
High Normal:10,12, 14,20,23	A	B	C	C-D
Low Normal:1,5-6,8-9, 13,16,19,22,25-28	A-B	B-C	C-D	D-E
Below Normal:2,4,7, 17-18,21,29,31	B-C	C-D	D-E	E
Disturbed:3,30	C-E	D-E	E	E

Where expected signal quality is:

A - Excellent opening, exceptionally strong, steady signals greater than S9.
B - Good opening, moderately strong signals varying between S6 and S9, with little fading or noise.
C - Fair opening, signals between moderately strong and weak, varying between S3 and S6, with some fading and noise.
D - Poor opening, with weak signals varying between S1 and S3, and with considerable fading and noise.
E - No opening expected.

HOW TO USE THIS FORECAST

1. Find propagation index associated with particular band opening from Progagation Chart appearing on the following page.

2. With the propagation index, use the above table to find the expected signal quality assocated with the band opening for any day of the month. For example, an opening shown in the chart with a propagation index of 3 will be good-to-fair (B-C) on Oct. 1st, fair-to-poor (C-D) on the 2nd, poor-to-nil (D-E) on the 3rd, poor-to-fair (C-D) on the 4th, etc. Good-to-fair conditons (B-C) are expected for the WW DX Contest period Oct. 27-28.

DX CONTEST SURVEY
(Limited to ARRL + CQWW)

1. Assistance Desired
Please rate the following items reflecting your desires relative to your potential participation:

	VITAL	NEEDED	NOT NEEDED
Recognition (awards, etc.)	☐	☐	☐
Operator & Station Info. Exchange	☐	☐	☐
Repeater Spotting	☐	☐	☐
Log Sheets & Rules	☐	☐	☐
Copying Logs (Xerox)	☐	☐	☐
Duping & Scoring Logs	☐	☐	☐
Strategy Recommendations	☐	☐	☐
Intra-club Team Competition	☐	☐	☐

2. Assistance Offered
Please indicate where you can help:

Operator & Station Info. Exchange	☐
Repeater Spotting	☐
Duping & Scoring Logs	☐
Copying Logs (Xerox)	☐
Provide Log Sheets & Rules	☐
Strategy	☐

3. Participation Plan (1984 CQWW)

☐ Single Op.	☐ CW	☐ Need Station
☐ Multi Op.	☐ Phone	☐ Need Operators
☐ Spotter	☐ Both	☐ Undecided

Your response is urgently needed and will be appreciated.
Please bring your response to the October 11th SCDXC meeting or mail it to:

John P. Alexander
28403 Covecrest Drive
Rancho Palos Verdes, CA 90274

Call_____ Name_____

Phone: Home_____ Work_____

CQ World Wide DX Contest CQ

Last Full Weekend of October (Phone) & November (CW)

Page____ of ____ Pages

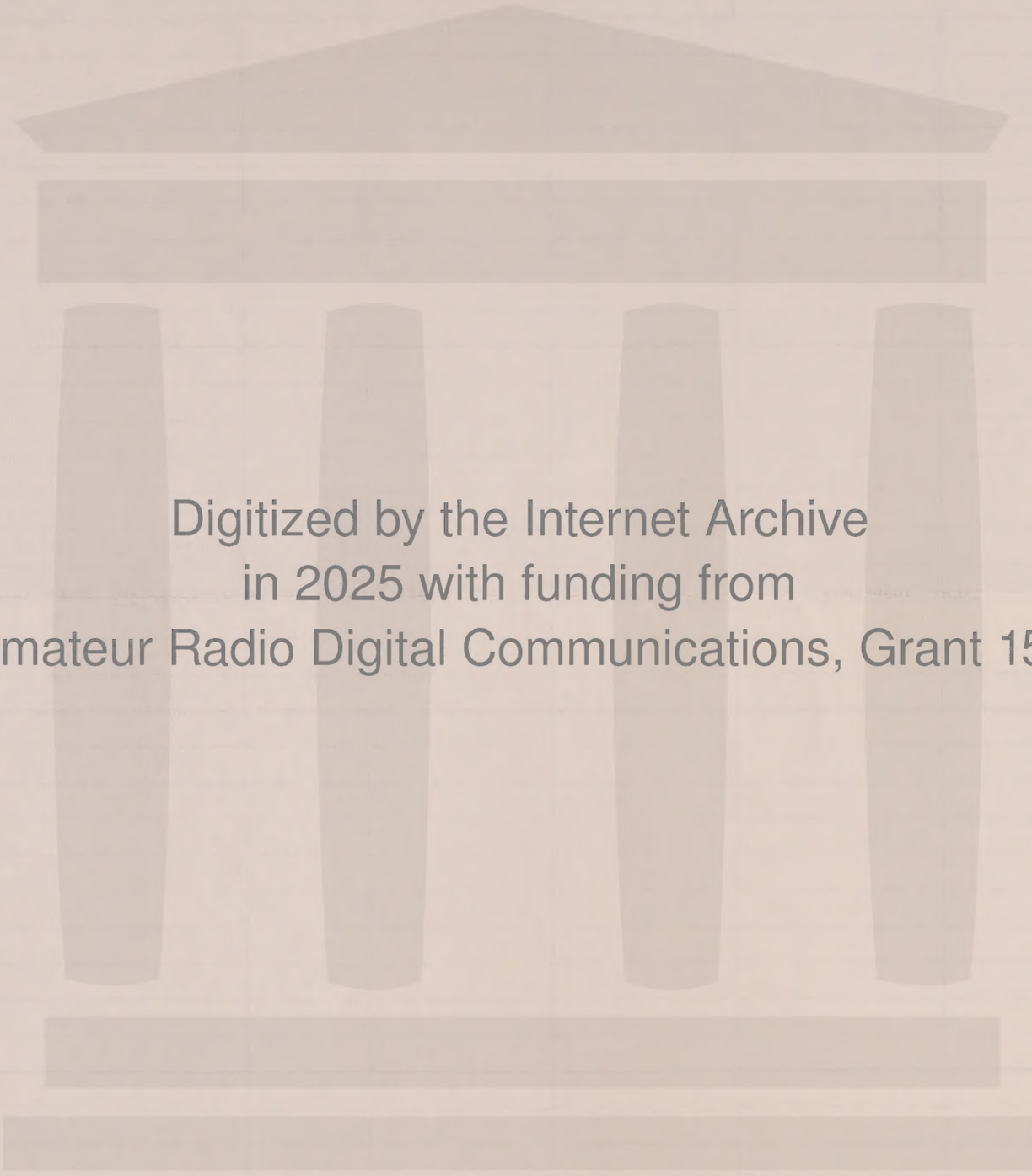
Call Sign [ ] [ ] Phone [ ] CW Log for [ ] MC Band

(use separate log for each band)

DATE GMT	TIME GMT	STATION	SERIAL NUMBER		INDICATE MULTIPLIERS ONLY		QSO POINTS
			SENT	RECEIVED	ZONE	COUNTRY	
		QSO's (minus duplicates)	TOTALS (This Page Only)		(Zones)	(Countries)	(Points)

Note: Duplicate QSO's can mean disqualification!

CQ Form 1056B, eff. Aug., 1969



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160-METER DX OPERATING PRACTICES

REGION 1

COUNTRY		ALLOCATION	NOTES
Andorra	(C3)	1810-1875	Phone permitted only in 1825-1875
Austria	(OE)	1810-1850	SSB only allowed 1832-1835
Bahrain	(A9)	1800-2000	
Cyprus	(5B)	1800-2000	Phone permitted only in 1900-2000
Denmark	(OZ)	1830-1850	CW up to 10 watts only
Djibouti	(J2)	1810-1850	
East Germany	(Y2)	1810-1950	Up to 10 watts, phone only allowed 1900-1950
West Germany	(DL)	1815-1835	SSB only allowed 1832-1835
		1850-1890	CW only
Finland	(OH)	1820-1845	Up to 10 watts
		1915-1955	Up to 10 watts
France	(F)	1830-1850	
Gibraltar	(ZB)	1800-2000	
Lesotho	(7P)	1800-2000	Up to 10 watts
Luxembourg	(LX)	1830-1850	
Malta	(9H)	1810-2000	Up to 10 watts
Netherlands	(PA)	1825-1835	Up to 10 watts CW and SSB
Nigeria	(5N)	1800-2000	Up to 10 watts
Norway	(LA)	1802-1850	CW up to 15 watts
Oman	(A4)	1800-2000	CW up to 10 watts only
Poland	(SP)	1750-1800	Up to 10 watts input
		1810-1930	Up to 10 watts except 1830-1850
Portugal	(CT)	1830-1850	Cw and RTTY up to 60 watts only
USSR	(U)	1850-1950	Low power, phone only allowed 1875-1950
San Marino	(T7)	1830-1850	
Senegal	(6W)	1810-1850	
South Africa	(ZS)	1810-1850	
Spain	(EA)	1830-1850	
Sweden	(SM)	1830-1845	10 watts CW only
Switzerland	(HB)	1810-1850	
Syria	(YK)	1830-1850	
United Kingdom	(G)	1810-2000	

REGION 2

COUNTRY		ALLOCATION	NOTES
Antigua	(VP)	1800-2000	
Argentina	(LU)	1800-1850	1800-1810 CW only
Bahamas	(C6)	1800-1825	
		1975-2000	
Bermuda	(VP)	1800-1825	CW and Phone
		1875-1900	CW and Phone
Bolivia	(CP)	1800-1850	
Brazil	(PY)	1800-1850	
Canada	(VE)	1800-2000	
Colombia	(HK)	1800-2000	
Costa Rica	(TI)	1800-2000	
El Salvador	(YS)	1800-2000	
Grenada	(J3)	1800-2000	
Guatemala	(TG)	1800-2000	
Honduras	(HR)	1800-2000	
Mexico	(XE)	1800-2000	
Montserrat	(VP)	1800-2000	CW and SSB only
Curacao	(PJ)	1800-2000	
Nicaragua	(YN)	1800-2000	
Panama	(HP)	1800-2000	
Peru	(OA)	1800-2000	
Surinam	(PZ)	1800-2000	
Trinidad	(9Y)	1800-2000	
United States	(W)	1800-2000	

REGION 3

COUNTRY		ALLOCATION	NOTES
Australia	(VK)	1800-1866	Phone 1825-1866
		1874-1875	
French Polynesia	(FO)	1800-2000	
Hong Kong	(VS)	1800-2000	CW only
Indonesia	(YB)	1800-1900	Phone
		1900-2000	CW
Japan	(JA)	1907-1912	Add 1/2 kHz to limits
Malaysia	(9M)	1800-2000	
New Zealand	(ZL)	1803-1857	
		1863-1950	
Pakistan	(AP)	1800-2000	
Papua New Guinea	(P2)	1800-1866	
		1874-2000	
Singapore	(9V)	1800-2000	Up to 10 watts
Solomon Islands	(H4)	1800-2000	
Western Samoa	(5W)	1800-2000	Phone 1850-2000

Access to this band is still denied in Belgium, Hungary, Italy, Lebanon, Liberia, Monaco, Morocco, Romania, Sierra Leone, Turkey, Belize, Chili, Bangladesh, Fiji and Philippines. In Region 2, the segement 1800-1850 is an exclusive allocation where 1850-2000 is shared. In Region 3, 1800-2000 is a shared allocation.

80-METER DX OPERATING PRACTICES

AREA	CW SECTION	PHONE SECTION	PHONE DX
Africa (most countries)	3.500-3.600	3.600-4.000	3.790-3.810
Argentina, Chile	3.500-3.750	3.600-3.750	3.740-3.750
Asia (most countries)	3.500-3.600	3.600-4.000	3.790-3.810
Australia	3.500-3.600	3.600-3.700	3.690-3.700
Canada	3.500-3.725	3.725-3.999	3.750-3.800
Europe (except USSR)	3.500-3.600	3.600-3.800	3.790-3.800
Greece	3.500-3.600	3.500-3.600	3.590-3.600
India	3.650-3.700	3.650-3.700	3.675-3.700
Japan	3.500-3.550	3.550-3.575	3.793-3.803
New Zealand	3.500-3.600	3.600-4.000	3.775-3.825
South America (most countries)	3.500-3.600	3.600-3.999	3.775-3.800
USA and territories	3.500-3.775	3.775-3.999	3.775-3.825
Marshall Islands	3.500-3.900	3.800-3.999	3.800-3.825
USSR	3.500-3.600	3.600-3.650	3.640-3.650

15 OCT - 15 DEC	PST	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WESTERN & SOUTHERN EUROPE & NORTH AFRICA	10								1	2	2	1	1													
	15								1	2	3	3	3													
	20	1	1					1	2	1	1	2	2	2	3	2	2	1	1	1	1	1				
	40																			1	1	2	2	1	1	
	80																				1	1	1	1	1	1
CENTRAL & NORTHERN EUROPE & EUROPEAN USSR	10								1	1																
	15								1	2	1	1	1													
	20	1	1					1	2	2	2	2	1	1	1	1	1									
	40																						1	1	1	1
EASTERN MEDITERRANEAN & MIDDLE EAST	10								1	1	1	2														
	15								1	2	2	2	1													
	20							1	2	2	2	1	1	1	1	2	2	1	1				1	1		
	40							1	1											1	1	1	1	1		
WEST & CENTRAL AFRICA	10									1	2	2	2	1	1											
	15							1	1	1	1	2	2	3	3	3	2	2	1							
	20							1	1	1	1	2	2	2	2	3	3	4	4	3	2	2	1	1		
	40																			1	1	1	1	1		
SOUTH AFRICA	10									1	2	2	1													
	15							1	1	1	1	2	3	4	4	2	1									
	20	1	1					1	1	1	1	1	1	2	2	2	3	3	3	2	2	1				
	40							1	1											1	2	1				
	80																			1						
EAST AFRICA	10											1	1	1												
	15									1	1	1	1	2	2	2	1	1								
	20									1	1	1	1	1	2	2	3	3	2	2	1	1				
	40								1	1										1	1	1				
CENTRAL & SOUTH ASIA	10									1	1								1	1						
	15								1	1								1	2	2	1					
	20							1	2	2	1	1						1	1	2	2	1				
	40					1	1	1	1	1										1						
SOUTHEAST ASIA	10										1	1				1	2	2	1							
	15										1	2	1			1	2	2	2	1						
	20							1	2	2	2	1	1						1	1	2	1	1			
	40			1	2	2	1	1	1																	
	80				1	1																				
FAR EAST	10															1	2	2	1							
	15													1	1	1	2	3	2							
	20							1	2	3	3	2	2	1	1	3	4	3	2	1	1	2	1	1		
	40	1	1	2	2	2	1	1	1					1	1	1	1	2	2	3	3	2	1	1	1	
	80		1	1																						1
SOUTH PACIFIC & NEW ZEALAND	10									1	1	2	2	3	4	4	4	2	1							
	15								1	2	2	1	1	2	2	2	2	4	4	2	1					
	20	1	1	1	2	2	1	1	4	4	2	2	1	1	1	1	1	2	3	4	4	3	3	2	2	
	40	3	3	3	3	3	2	2	1														1	3	3	
	80	2	2	2	2	2	1																	1	1	
AUSTRALASIA	10											1	1			1	2	3	4	2	1					
	15											1	2	3	3	2	2	3	3	4	2	1	1			
	20	2	2	3	3	2	2	3	4	4	3	2	2	1	1					1	2	1	2	3	3	3
	40			1	2	3	3	1	1																	
	80				1	2	2	1																		
NORTHERN & CENTRAL SOUTH AMERICA	10									1	2	2	3	3	4	4	2	1								
	15							1	2	3	3	2	2	2	3	4	4	4	1							
	20	1	1	1	1	1	2	3	4	4	2	2	2	2	3	3	4	4	4	3	3	2	2	2	2	2
	40	3	2	2	2	2	1													1	3	3	3	3	3	3
	80	2		1	1	1																1	1	2	2	2
BRAZIL, ARGENTINA, CHILE & URUGUAY	10									1	2	2	2	3	3	4	4	2	1							
	15							1	2	2	1	1	1	1	1	2	3	4	2	1						
	20	2	2	1	1	2	2	2	1	1				1	1	2	2	2	3	4	4	3	3	3	3	2
	40	1	1																				1	1	2	2
	80																								1	1

George Morris, W6ABW
2106 Earnslow Drive
La Canada, CA 91011

FIRST CLASS MAIL

Jay O'Brien W6GO
P. O. Box 700
Rio Linda, CA
95673

SOUTHWESTERN DIVISION CONVENTION

Mark your calendars for the weekend of October 13 and 14 for the ARRL Southwestern Division Convention in Santa Maria. Featured speakers include several SCDXC members: W6AQ (Banquet Speaker), N6RJ (Dx Forum), N6VI (Contest Forum), W6SP (AMSAT) and N6NB (Legal Issues). Preregistration goes to HAMCON, Box 2457, Santa Maria, CA 93455.

Frank, W6SWM, is arranging a DX breakfast on Sunday at 8:30 am at the Landmark Hotel. Enjoy a sitdown breakfast for $7.50. Breakfast speaker is Ski, N6ADI.

ARRL NEWS RELEASE

The ARRC Awards Committee met Sep. 18 to consider the recommendation of the DXAC to delete the Baker, Howland, and American Phoenix Islands DXCC listing, and to add a new DXCC country, Baker and Howland. The Committee REJECTED this proposed action by a vote of 6 to 1. Therefore, the present listing remains but will no longer include the American Phoenix Islands, since sole jurisdition has been under the Republic of Kiribati since September 23, 1983. Thus, no deletion or addition to the DXCC list will occur.

CQ WW DX CONTESTS

All SCDXC members are encouraged to participate in the CQ WW DX Contests and submit their scores for the Club. The Phone Contest is Oct. 27-28 and the CW Contest Nov. 24-25. A contest log sheet is enclosed. Copy more as needed. Also enclosed is 80 and 160 world frequency list.

TEST EQUIPMENT CORNER

Dick Reimer, W6ET, indicates that he has available a General Radio rf bridge (great for testing wire antennas), a 500 MHz digital frequency counter and a deviation meter which he will make accessible to Club members. Thanks, Dick, and let's hear from some more of you who have technical resources to share.

FOR SALE:

Collins 75A-2 receiver, no scratches, original manual, $145. Nick, WB6DXU, 818-842-5983.

FOR SALE:

Save your antennas, new wind speed indicator complete 0-100 mph including shipping $67.50. Nick Winter, WB6DXU, 1426 N. Avon St. Burbank, CA 91505 818-842-5983.

ACTIVITY REPORT

K6DDO: UA12BW/UD 7/22 0355 14; BV0AB (QSL JH6SOR) 7/23 1710 14; WP4ATF/KP5 7/23 2215 14; RJ6R (Oblast 042) 7/29 0310 14; FO8JR/P (Arutua Atoll) 7/30 0350 14; UJ8JCQ/UBR 7/31 0338 14; C21BD 7/31 0552 14; YO0O 7/31 0610 14; 4K1CEY 8/4 0420 14; VK9NL 8/4 0435 14; UF7FWW 8/4 0500 14; UD7DWG 8/4 0510 14; FB8YK 8/5 0333 14; UH8EAA 8/5 0510 14; W1CCN/FP 8/5 1815; OX3BJ 8/6 0355 14; DF3GX/PJ4 8/6 2257 14; SJ9WL (Morokulien) 8/7 0633 14; VP2MIX (QSL WOIJN) 8/8 2040 21; I2DMK/IL7 8/11 0025 14; KC7UU/5N6 8/11 0027 14; PA0AAC 8/11 0437 7; UA1OT/FJL 8/11 0725 14; T32AB (QSL N7YL) 8/23 0310 14; P29PR 8/27 0700 14; UH8EWW 9/2 0353 14; FO0GM (Mike, KG2XE) 9/6 0415 14; AI5P/TF 9/7 2235 14; CE0AA 9/8 1543 14; VK4RF 9/9 0615 10; KC7UU/5N8 9/9 2115 21; P29PR 9/10 0743 10; VK2BKH/M 9/10 0750 10; VK2QL 9/11 0505 10; ZS5BH 9/11 0527 10; T32AF 9/12 0743 10; CE0AA 9/12 1655 21; DF2PI/OY 9/13 1547 14; 1Z9A 9/13 1724 14; OA4SS 9/15 0420 10; DL8YR/LX 9/15 2103 14; GU4XEA 9/15 2125 14; OH2BE 9/16 0224 7; FB8WK 9/16 0256 7; FB8WK 9/16 0340 10; HB0NL 9/20 1516 14.